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PATENT  
Customer No. 22,852  
Attorney Docket No. 8489.0008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Doyle, et al.

Serial No.: 10/006,504

Filed: December 3, 2001

For: CURVILINEAR VALVE PIN  
CONTROLLER FOR INJECTION

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)  
) Group Art Unit: 1732

) Examiner:  
)  
)  
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)

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Commissioner for Patents  
Washington, DC 20231

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed documents, including any copending patent applications, are attached.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the

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documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: June <sup>12</sup>, 2002

By 

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## INFORMATION DISCLOSURE CITATION

Atty. Docket No.	08489.0008	Serial No.	10/006,504
Applicant	Galati, et al		
Filing Date	December 3, 2001	Group:	

## U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
	3,535,742	10/27/70	Marcus	18	30	7/31/67
	3,780,764	12/25/73	Geist	137	613	4/7/72
	3,820,928	6/28/74	Lemelson	425	146	10/13/72
	3,861,841	1/21/75	Hanning	425	146	6/13/72
	3,952,927	4/27/76	Schaumburg, et al.	222	510	6/23/75
	4,389,002	6/21/83	Devellian, et al.	222	146	2/7/80
	4,521,179	6/4/85	Gellert	425	548	1/4/84
	4,500,279	2/19/85	Devellian et al.	425	548	7/6/83
	4,588,367	5/13/86	Schad	425	549	7/16/84
	4,592,711	6/3/86	Capy	425	144	12/1/83
	4,701,292	10/20/87	Valyi	264	155	9/13/84
	4,863,369	9/5/89	Schad, et al.	425	547	11/2/87
	4,931,234	6/5/90	Schad et al.	264	40.1	2/6/89
	4,932,854	6/12/90	Matsuda, et al.	425	144	PCT filed 4/7/88
	5,078,589	1/7/92	Osuna-Diaz	425	562	6/15/90
	5,141,696	8/25/92	Osuna-Diaz	264	297.2	3/21/88
	5,149,547	9/22/92	Gill	425	145	6/12/91
	5,281,374	1/25/94	Matsuda et al.	264	39	PCT filed 5/27/88
	5,288,222	2/22/94	Wieser	425	190	PCT filed 10/15/90
	5,356,576	10/18/94	Fischbach	264	40.4	3/23/92
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	5,674,439	10/7/97	Hume, et al.	264	40.6	8/23/95
	5,871,786	2/16/99	Hume, et al.	425	549	4/4/97
	5,885,624	3/23/99	Katsuta et al.	425	149	6/17/97
	5,885,628	3/23/99	Swenson, et al.	425	549	5/14/97
	5,894,025	4/13/99	Lee, et al.	425	562	6/13/97
	5,916,605	6/29/99	Swenson, et al.	426	564	9/27/96
	5,948,448	9/7/99	Schmidt	425	192 R	11/18/97
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	6,000,831	12/14/99	Triplett	364	475.09	2/12/97
	6,027,328	2/22/00	Herbst	425	553	2/26/97
	6,062,840	5/16/00	Lee et al.	425	130	9/2/97
	6,254,377 B1	7/3/01	Kazmer, et al.	425	562	1/5/00
	6,261,075 B1	7/17/01	Lee et al.	425	130	3/3/00
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	6,294,122 B1	9/25/01	Moss et al.	264	328.9	11/6/98
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	6,343,921 B1	2/5/02	Kazmer, et al.	425	145	1/5/00
	6,343,922 B1	2/5/02	Kazmer, et al.	425	145	4/5/00
	6,361,300 B1	3/26/02	Kazmer	425	145	4/21/98

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Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
EP 0 911 137	4/28/99	Europe	B29C	45/16	YES
203 41 63	2/11/71	Germany	39A4	1/06	NO
24 01 168	7/31/75	Germany	B29F	1-022	NO

## INFORMATION DISCLOSURE CITATION

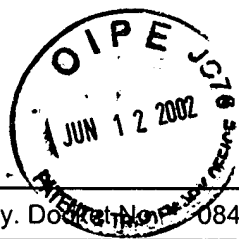
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		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
		DE 299 09 535	8/12/99	Germany	B29C	45/77	NO
		JP 58-142833	8/25/83	Japan	B29F	1/03	NO
		JP 60-212321	10/24/85	Japan	B29C	45/77 AND 45/56	NO
		JP 61-63428	4/1/86	Japan	B29C	45/30 AND 45/76	WE HAVE BOTH
		WO 97/43105	11/20/97	PCT	B29C	45/30	YES
		WO 98/56564	12/17/98	PCT	B29C	45/80	YES
		WO 99/54109	10/28/99	PCT	B29C	45/30 AND 45/28	YES
		WO 99/59795	11/25/99	PCT	B29C	45/27	NO
		WO 01/08462	2/8/01	PCT	Not Classified	Not Classified	YES

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Kazmer, David O., et al., "Multi-Cavity Pressure Control in the Filling and Packing Stages of the Injection Molding Process," <i>Polymer Engineering and Science</i> (November, 1997) Vol. 37, No. 11: 1865-1879.
		Kazmer, David O., et al., "The Process Capability of Multi-Cavity Pressure Control for the Injection Molding Process," <i>Polymer Engineering and Science</i> (November, 1997) Vol. 37, No. 11: 1880-1895.
		Kazmer, David O., "Dynamic Feed Control: A New Method for Injection Molding of High Quality Plastic Parts," <i>A Dissertation submitted to the Design Division of Mechanical Engineering and the Committee on Graduate Studies in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in Mechanical Engineering</i> , June 1995, (ii-xix, 2-199).
		Abstract - Japanese Publication No. 20 00141439, 5/23/00, Kobe Steel Ltd., "Injection Compression Molding Device."
		Abstract - Japanese Publication No. 58 142833, 25/8/83, Kobe Steel Ltd., "Control Method for Injection Molding Machine"
		Abstract - Japanese Publication No. 60 212321, 24/10/85, Yazaki Kako KK, "Quantity Control of Resin for Injection Compression Molding"
		Abstract - Japanese Publication No. 61 063428, 1/4/86, Nippon Densco Co. Ltd., "Mold Assembly"
		Abstract - Japanese Publication No. 63 166511, 7/9/88, Nissei Plastics Ind. Co., "Injection Molding."



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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		International Search Report, mailed 02.02.99, PCT/US98/10798
		International Search Report, mailed 22.06.01, PCT/US01/04674
		European Search Report, dated 28.02.01, EP Application No. 00 12 4358

Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
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